

CCTTTCATAGAGAACAAGAACTAAAGAAATTCTGTGACAAATGGACAATATAATTGGCCCAGTGTTCCTCCT  
 CATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTCAGGTCAACATCAGAGTAAGGATATGGAGCCTA  
 GGATCCCTTCTTAAACAACTGGAGACGTAATAACCCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATAT  
 TTAACAGAAAACCACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTGAGGT  
 AGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAATTTTTAGGTACTGACAAGATGGAAGTC  
 AACATTTCAATGCCCTCTGAATGGATCAGAAGTTGTGTTTTATGATTCTACCACCTCAAGTGTTCATGGATCCTCT  
 CATAGTGGTTCTCTTTATAACCTTTGTCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTC  
 GATGGCACACACTGTGACCACTGTCTCTTATCTGAACTTGGCTTTGAGTGATTTATCTTTTCATGGTTACTCTACCA  
 CTTACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTGTTGGTTTCTTTGCAAATTAGTTCACATAATTG  
 CAAACATAAACCTTTTTGTAGTATCTTCCTAATCACTCTTATTGCCATGGATCGCTGTATTTGTGTCTGTGCCC  
 AGTATGGTCTCAGAATCACCGAAGTGTGAGTCTGGCCAGAAAAGTGGTTCTTGGAGCTTGGATATTTGCTCTGCTG  
 CTTACCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTATATCTAAATTTG  
 AATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTGCTGCCACAGCTTCAGGAATCATCAATTT  
 CATTATTGGATTCAGCATGCCATGTCTTTCATTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGA  
 GGCTTTGTGAATTCCAGTCGTCCTTTACGTGTCTCACTGCTGTAGCGATTTCTTTCTTTGTCTGTTGGTTCCCTT  
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTCATATGTTGGTTAACCACG  
 AAATACCTTGCTTCTTTAACAGCTGCCTCAACCCAATACTCTATGTATTCCTGGGTGAGGAATTCAGAGACAGA  
 CTAATCTATCTCTGTATGCCAGTCTAGAGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCCTGA  
 GCACTGACACAGACAGCAACTTGTCTTCATGAACTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGCCAAT  
 GGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGAAATTTCTGAGTATAACTATA  
 GAATCTCTCTGATTCTGATTGGAAGACAGAAGT (SEQ ID NO:1)

MEVNISMPLNGSEVVFYDSTTSSVLWILSLVLFITFVLGVLGNGLVIWVAGFQMAHTVTTVSYLNLALESLSFMV  
 TLPLHIISMVMRGKWLFGWFLCKLVHIIANINLFVSIFLITLIAMDRCICVLCPVWSQNHRTVSLARKVVLGAWIF  
 ALLLTLPHFLFLTTRDARGDVYCISKFESWVATSEEQLKMSVIAATASGIINFIIGFSMPMSFIAICYGLMAAKI  
 CRRGFVNSSRPLRVLTAVAISFFVCWFPFQLIMLLGNIFNNETLSIIHMLVNPANTLASFNSCLNPILYVFLGQEF  
 RDRLIYSLYASLERALRED (SEQ ID NO:2)

FIGURE 1

underlined = deleted in targeting construct

**bold** = sequence flanking Neo insert in targeting construct

**CCTTTCCATAGAGAACAAAGAACTAAAGAAATTCTGTGACAAATGGACAATATAATTGGC**  
**CCAGTGTTCTCCTCCTCATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTC**  
**AGGTCAACATCAGAGTAAGGATATGGAGCCTAGGATCCCTTCTTAAACAACCTGGAGACGT**  
**AATAACCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATATTTAACAGAAAAC**  
**CACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTG**  
**AGGTAGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAATTTT**  
**GTACTGACAAGATGGAAGTCAACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTT**  
ATGATTCTACCACCTCAAGTGTTCTATGGATCCTCTCATTAGTGGTTCTCTTTATAACCT  
TTGTCCCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTCCAGATGGCAC  
ACACTGTGACCACTGTCTCTTATCTGAACTTGGCTTTGAGTGATTTATCTTTTCATGGTTA  
**CTCTACCACTTCACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTGGTTGGTTTC**  
**TTTGCAAATTAGTTCACATAATTGCAAACATAAACCTTTTTGTAAGTATCTTCCTAATCA**  
**CTCTTATTGCCATGGATCGCTGTATTGTGTCTGTGCCCAGTATGGTCTCAGAATCACC**  
**GAACTGTGAGTCTGGCCAGAAAAGTGGTCTTGGAGCTTGGATATTTGCTCTGCTGCTTA**  
**CCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTA**  
**TATCTAAATTTGAATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTG**  
**CTGCCACAGCTTCAGGAATCATCAATTTTATTGATTGAGCATGCCATGTCTTTCA**  
**TTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAGAGGCTTTGTGAATTCCA**  
**GTCGTCCCTTTACGTGTCCTCACTGCTGTAGCGATTTCCCTTCTTGTCTGTTGGTTCCCTT**  
**TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTCATA**  
**TGTTGGTTAACCCAGCAAATACCTTGGCTTCCCTTTAACAGCTGCCCTCAACCAATACTCT**  
**ATGTATTCTCTGGGTGAGGAATTCAGAGACAGACTAATCTATTCTCTGTATGCCAGTCTAG**  
**AGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCTGAGCACTGACACAG**  
**ACAGCAACTTGTCTTCATGAACCTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGC**  
**CAATGGGATTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCTTATCTTGCATGA**  
**AATTTCTGAGTATAACTATAGAATCTCTCTGATTCTGATTTGGAAGACAGAAGT**

FIGURE 2A

Gene Sequence  
Structure \*

399 bp

Sequence Deleted

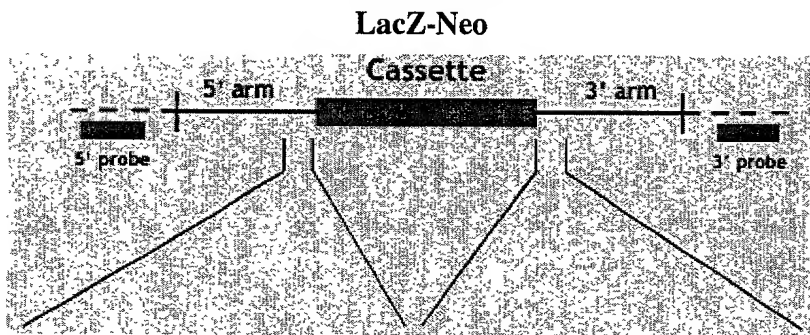
549 bp

Size of CDS: 1554 bp



Targeting Vector\*  
(genomic sequence)

Arm Length:  
5': 0.3 kb  
3': 6 kb



\* Not drawn to scale

<p>5'&gt;CATAGAATTAAGATTTCCATA GGGATATTTAACAGAAAACCACAT TTACTCTATTACCCCTAGAATAGG TACTTTTTTAAAAATAGAAGGTGATG TGGGATCTGAGGTAAGGCGGGACA AGATGGAGACACATCTGAAAAATA GTTATTGTTGAAAATTTTTAGGTG CTGACAAGATGGAAGTCAACATTT CAATGCCTCTG&lt;3' (SEQ ID NO:3)</p>	<p>5'&gt;CCACTGTCTCTTATCTGAACT TGGCTTTGAGTGATTTATCTTTCA TGGCTACTCTACCACTTCACATCA TCTCAATGGTCATGAGAGGAAAAT GGCTTTTTTGGTTGGTTTCTTTGCA AATTAGTTCACATAATTGCAAACA TAAACCTTTTTGTAAGTATCTTCC TAATCACTCTTATTGCCATGGATC GCTGTATTTGT&lt;3' (SEQ ID NO:4)</p>
---	--

FIGURE 2B

# Open Field Summary Data - Percent in Central

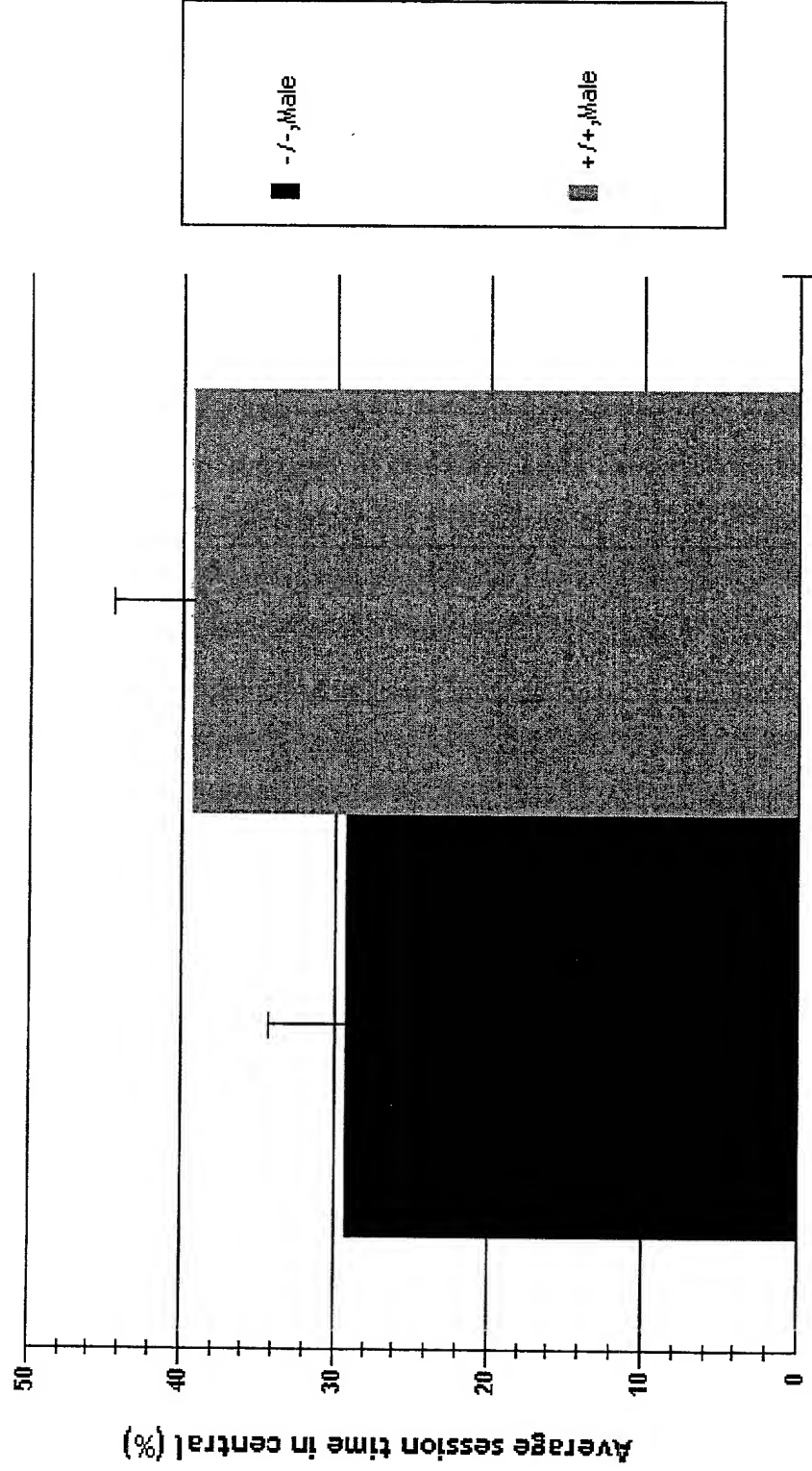


FIGURE 3

# Rotarod

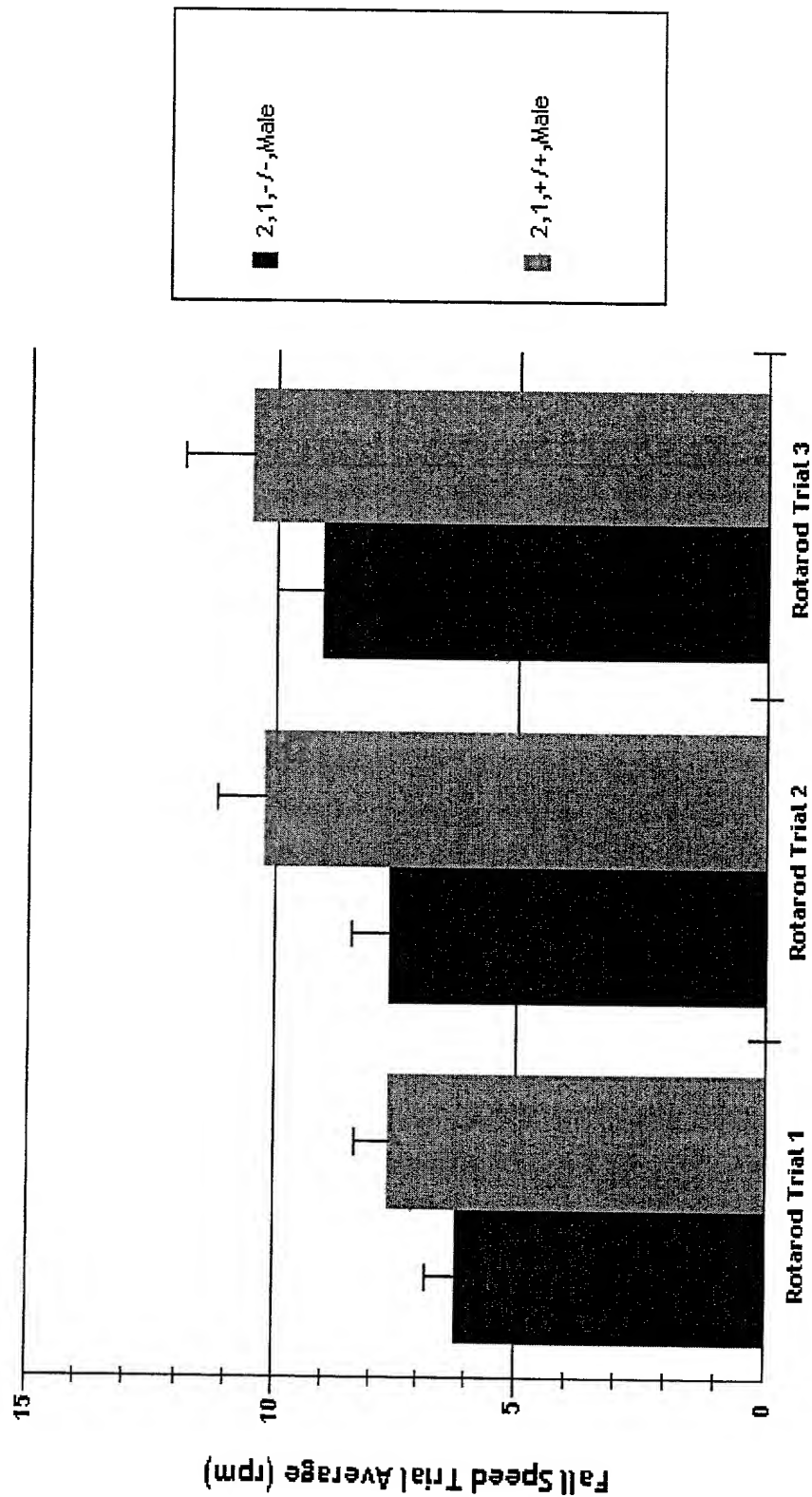


FIGURE 4

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## Metrazol

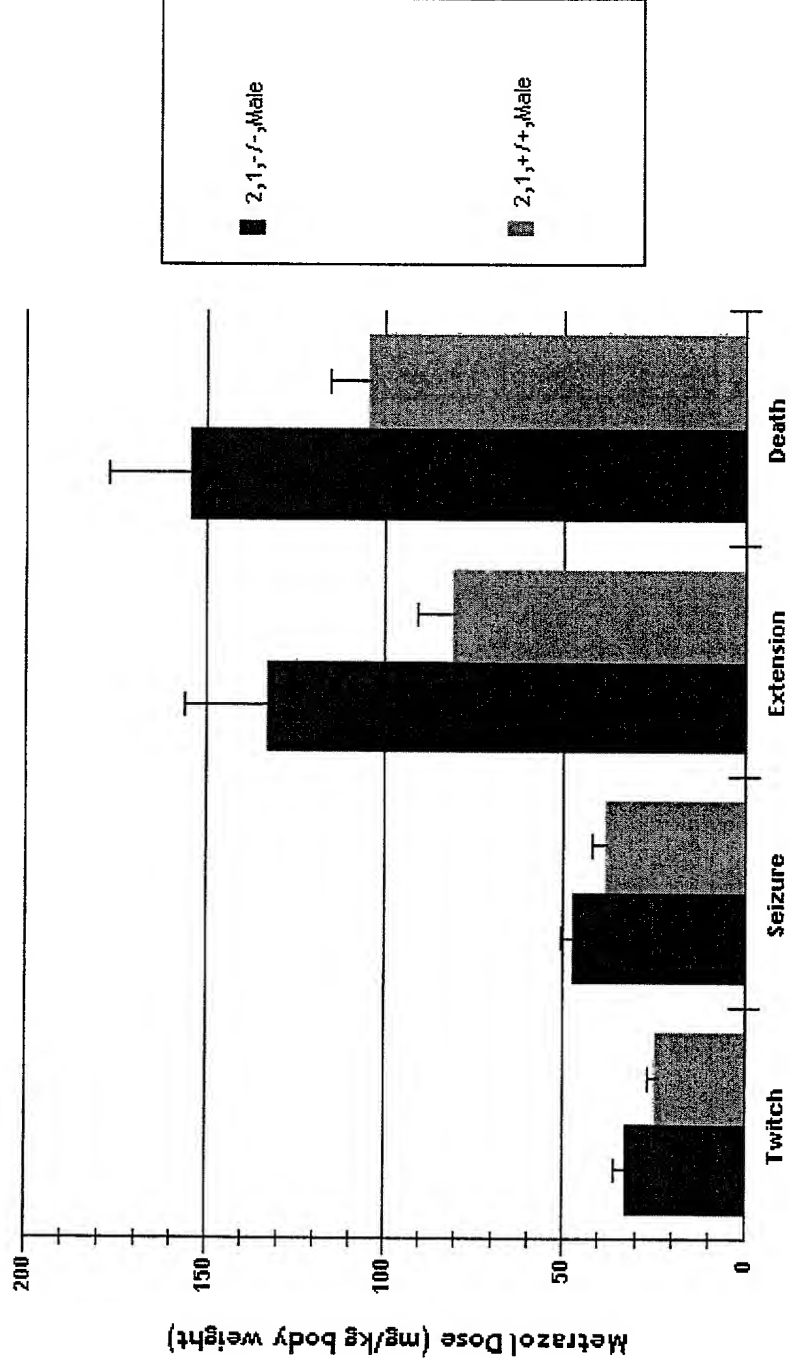


FIGURE 5